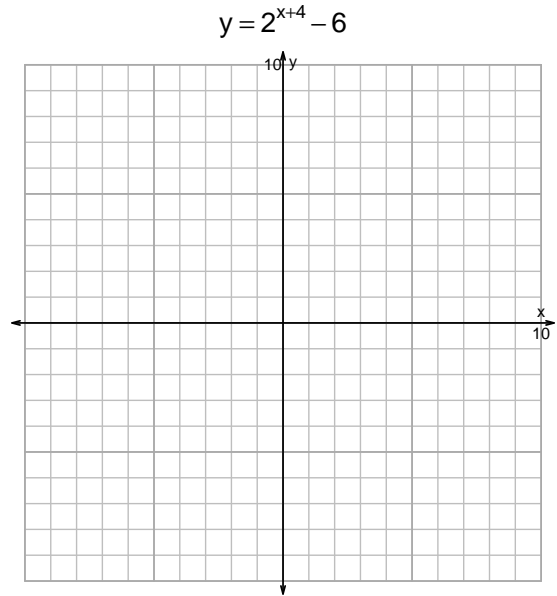
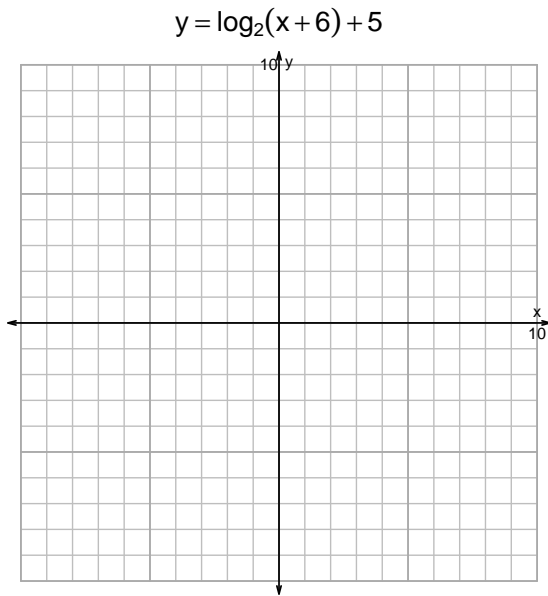


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (QUIZ v294)

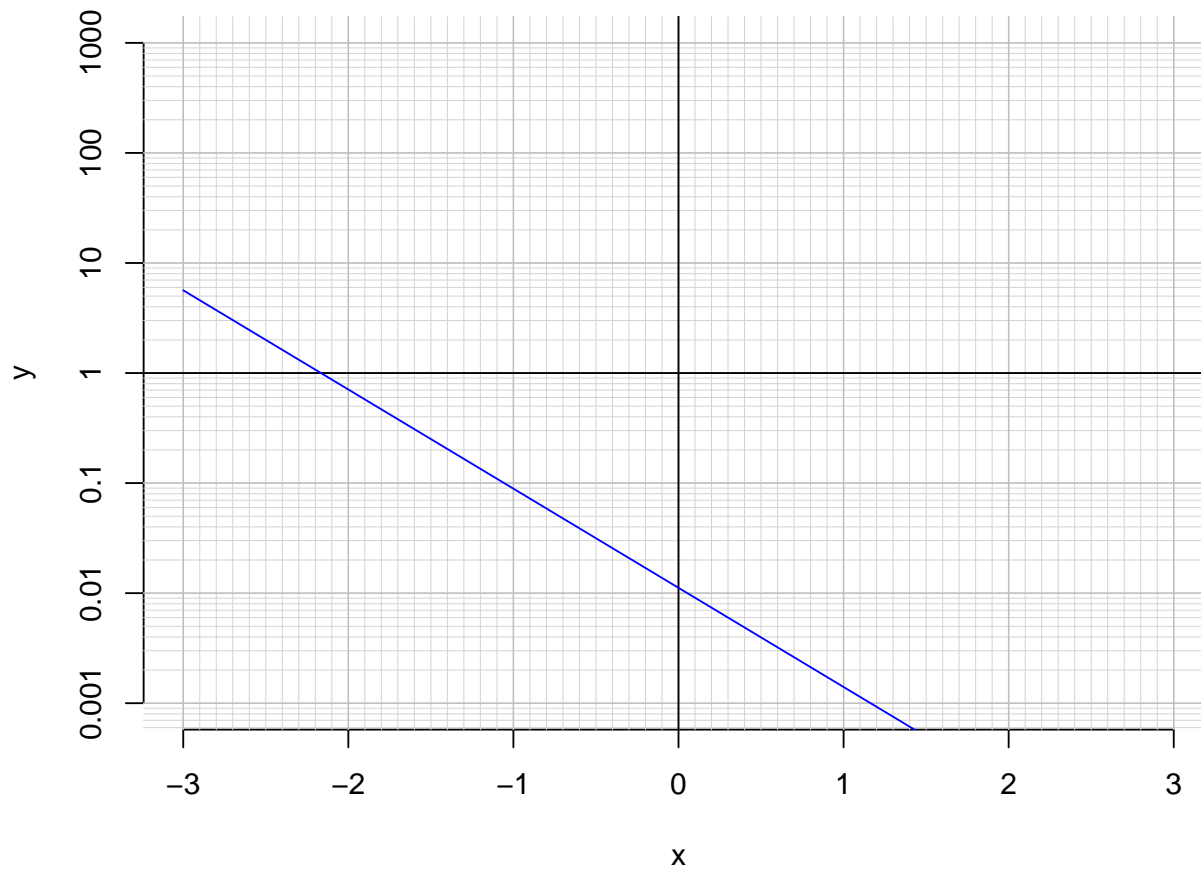
1. Graph  $y = \log_2(x + 6) + 5$  and  $y = 2^{x+4} - 6$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-19 = \left(\frac{-7}{3}\right) \cdot 10^{4t/5}$$

3. An exponential function  $f(x) = 0.0112 \cdot e^{-2.07x}$  is graphed below on a semi-log plot.



a. Using the plot above, evaluate  $f(0.3)$ .

b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

c. Using the plot above, evaluate  $f^{-1}(2)$ .